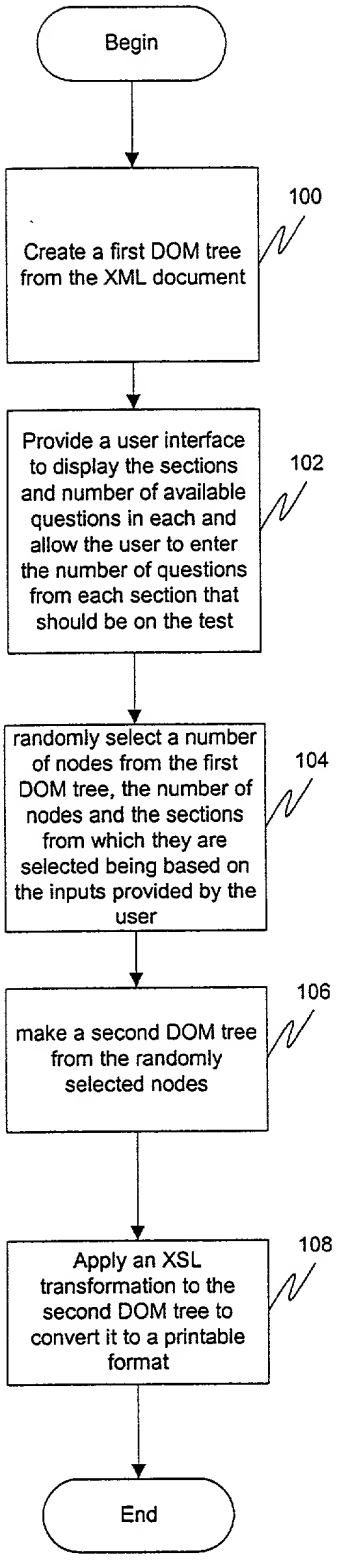
Begin
Create a first DOM tree from the XML document
100
Provide a user interface to display the sections and number of available questions in each and allow the user to enter the number of questions from each section that should be on the test
102
randomly select a number of nodes from the first DOM tree, the number of nodes and the sections from which they are selected being based on the inputs provided by the user
104
make a second DOM tree from the randomly selected nodes
106
Apply an XSL transformation to the second DOM tree to convert it to a printable format
108
End

FIG. 1

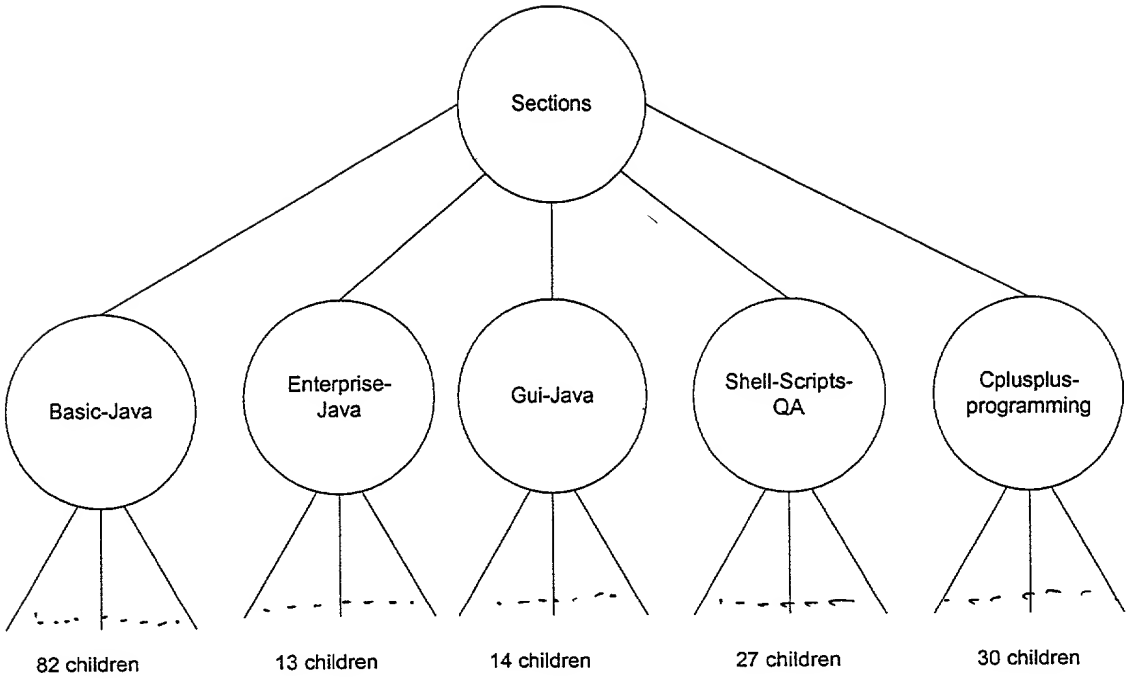
Sections
Basic-Java
Enterprise-Java
Gui-Java
Shell-Scripts-QA
Cplusplus-programming
82 children
13 children
14 children
27 children
30 children

FIG. 2

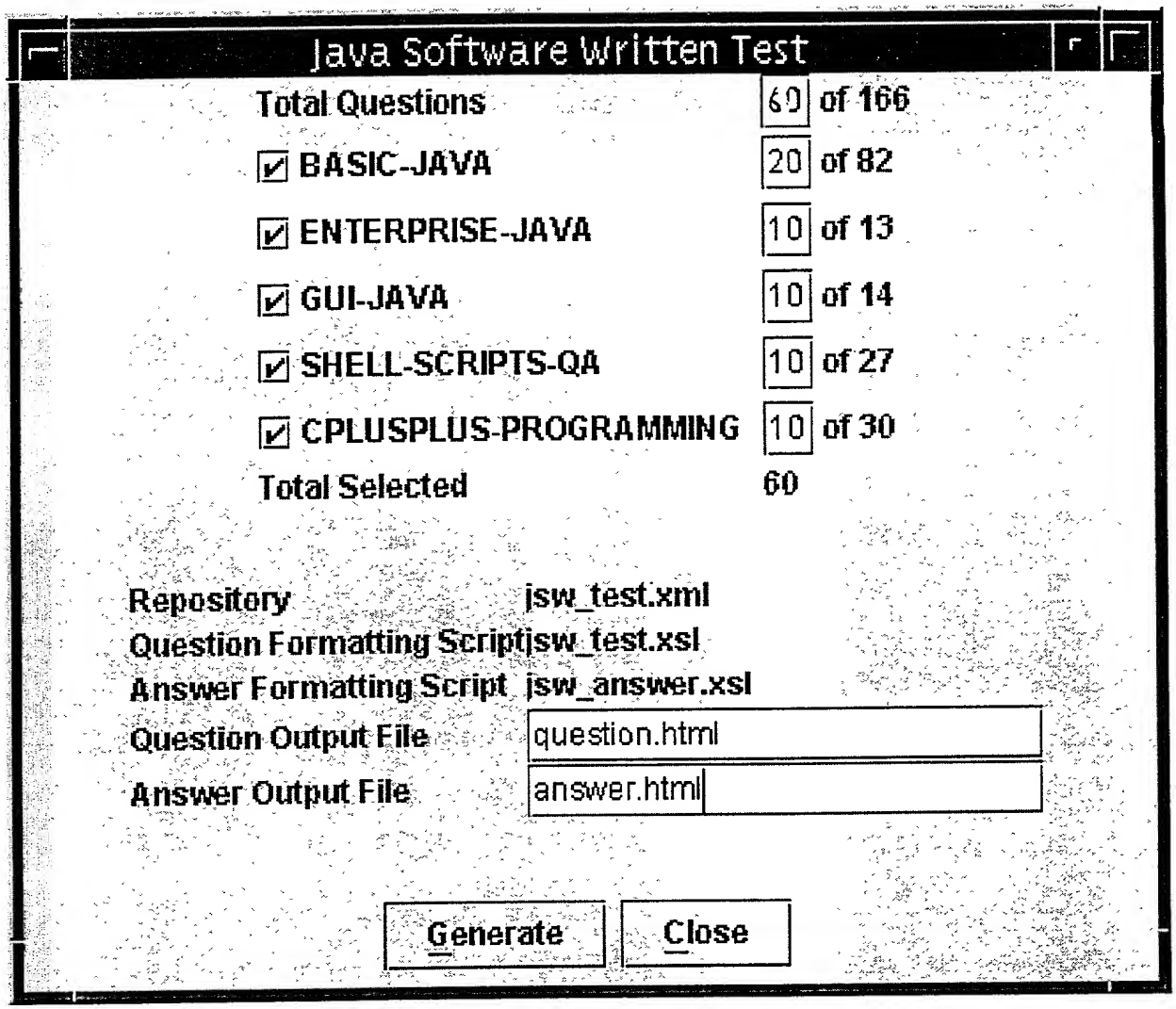
Java Software Written Test
Total Questions
60 of 166
BASIC-JAVA
20 of 82
ENTERPRISE-JAVA
10 of 13
GUI-JAVA
10 of 14
SHELL-SCRIPTS-QA
10 of 27
CPLUSPLUS-PROGRAMMING
10 of 30
Total Selected
60
Repository
jsw_test.xml
Question Formatting Script
jsw_test.xsl
Answer Formatting Script
jsw_answer.xsl
Question Output File
question.html
Answer Output File
answer.html
Generate
Close

FIG. 3

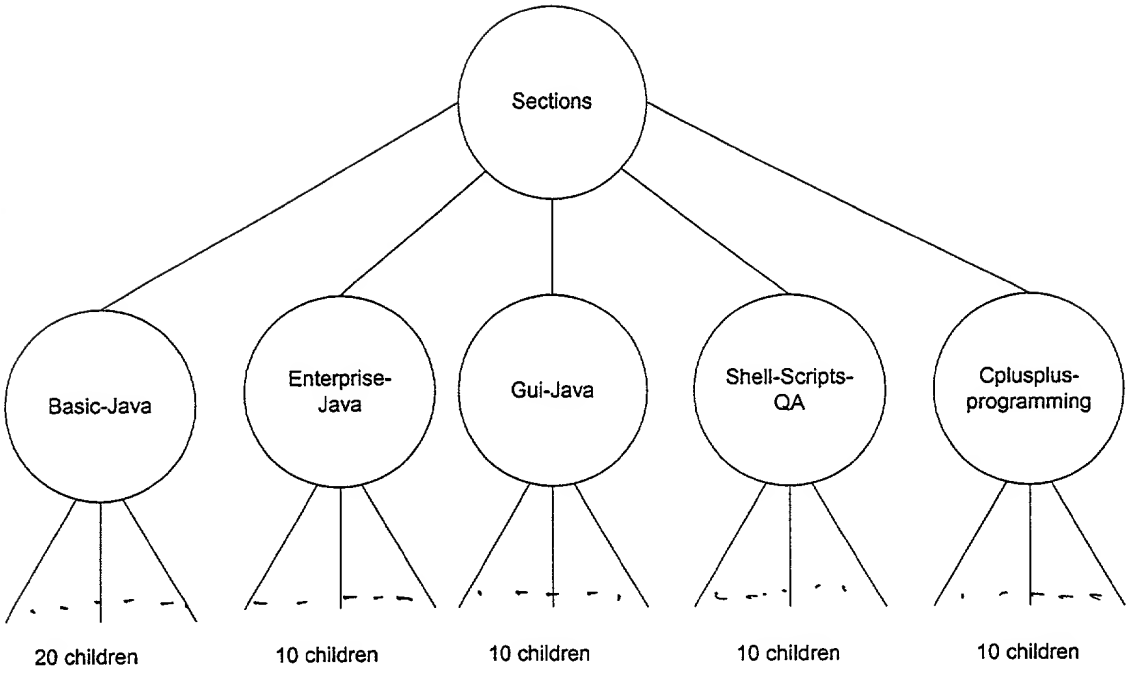
Sections
Basic-Java
Enterprise-Java
Gui-Java
Shell-Scripts-QA
Cplusplus-programming
20 children
10 children
10 children
10 children
10 children

FIG. 4

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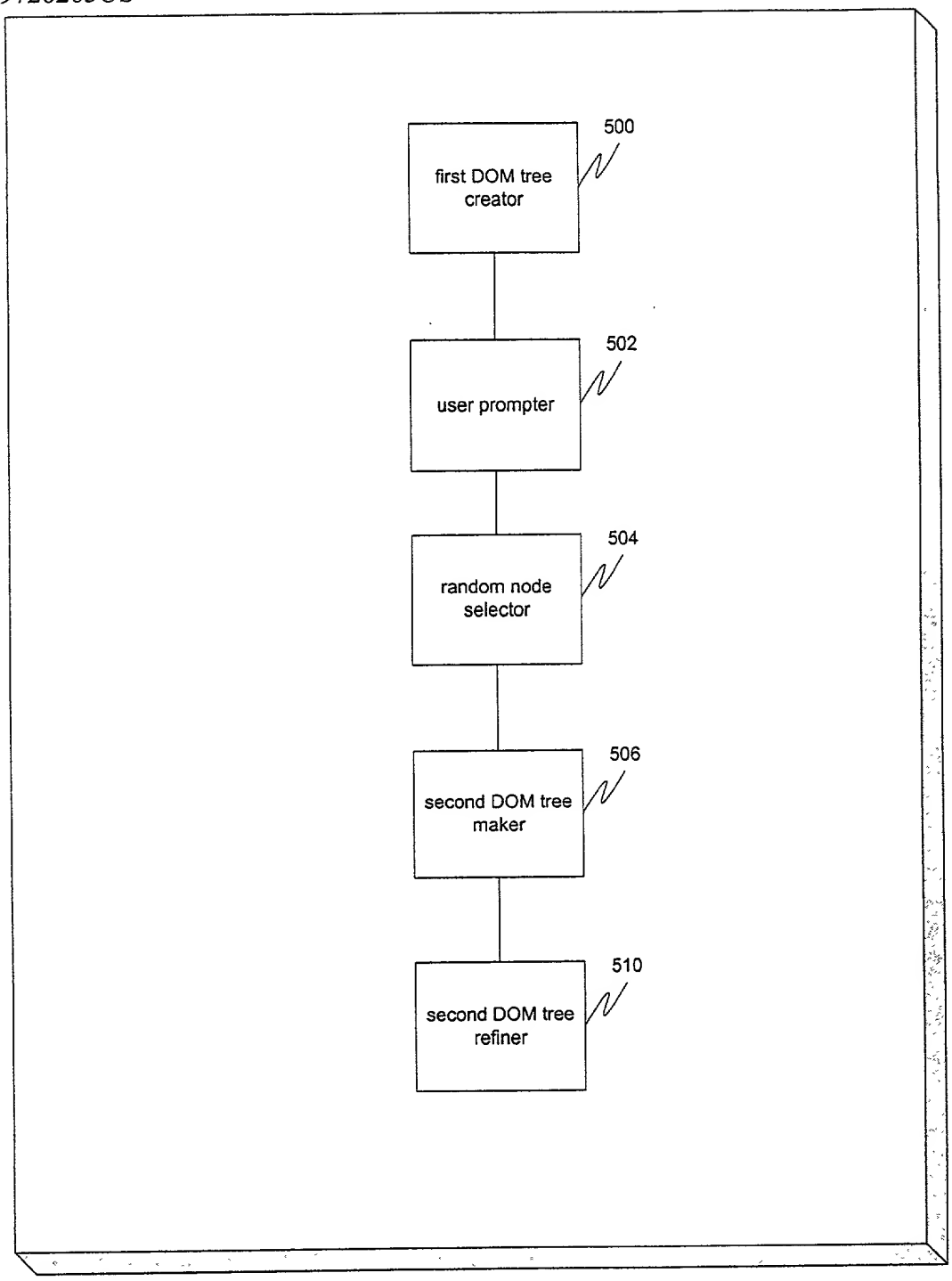

FIG. 5